

VIII.3.3-RES-SNGL-S-OVER26 SUBROUTINE OVER26

Description

Subroutine OVER26 computes dam discharges over uncontrolled spillways, gated spillways with all gates fully open or through fully open sluices.

Calling Sequence

CALL OVER26 (PEAKO, PKPOS, O, SOH, OH, HS, TOTALQ, QGEN, STOR, ELEV, WORK)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PEAKO	Output	R*4	NUMPKO	Array of peak outflows above a specified test value that occurs between outflows at regular time intervals; these peak values will be substituted in the outflow time series by the supervisory execution routine after all outflow values have been computed; PEAKO is applicable only if the number of routing time steps within the time interval exceeds one
PKPOS	Output	R*4	NUMPKO	Array of position numbers that indicate where the corresponding PEAKO values will be placed in the instantaneous outflow time series
O	Input	R*4	NOSOH	Discharge values for spillway discharge versus storage above spillway crest plus discharge/2 relation; discharges may be sluice values if routing is through sluice
SOH	Input	R*4	NOSOH	Storage plus discharge/2 values for O versus SOH relation; storage must be in units of mean discharge for the time interval; the first value of O and SOH arrays must be zero
OH	Input	R*4	NOHS	Discharge values for spillway (or sluice) rating

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
HS	Input	R*4	NOHS	Heights above spillway crest (or sluice invert) for spillway (or sluice) rating
TOTALQ	Input	R*4	NQGEN	Array of total dam discharges for the total discharge versus maximum generation discharge relation; this relation assumes an uncontrolled spillway and penstocks except when penstocks are closed due to a minimum head
QGEN	Input	R*4	NQGEN	Maximum generation discharges for TOTALQ versus QGEN relation
STOR	Input	R*4	NSE	Pool storages for elevation versus storage relation
ELEV	Input	R*4	NSE	Pool elevations for elevation versus storage relation
WORK	Input	R*4	NOSOH	Working array for computational purposes

Dimension variables are in common blocks RESV26 and ROOT26.